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Substitute for form 1449/PTO		<i>Complete if Known</i>		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/931469	
		Filing Date	2001-08-16	
		First Named Inventor	LAROA, RAJIV	
		Art Unit	2462	
		Examiner Name	JUNTIMA, NITTAYA	
Sheet	1	of	7	Attorney Docket No: 060542

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US5625876	04-29-1997	GILHOUSEN; Klein S. et al.	
	002	US6215983	04-10-2001	DOGAN; Mithat CAN. et al.	
	003	US6272122	08-07-2001	WEE; Pyeong-hwan	
	004	US6310704	10-30-2001	DOGAN; Mithat CAN. et al.	
	005	US6363060	03-26-2002	SARKAR; Sandip	
	006	US6535666	03-18-2003	DOGAN; Mithat CAN. et al.	
	007	US6542743	04-01-2003	SOLIMAN; Samir S.	
	008	US6590881	07-08-2003	WALLACE; Mark S. et al.	
	009	US7009500	03-07-2006	RAO; Manoharprasad K. et al.	
	010	US7551564	06-23-2009	MATTINA; Matthew	
	011	US7599327	10-06-2009	ZHUANG; Xiangyang	
	012	US20020018157	02-14-2002	ZHANG; Hongyong et al.	
	013	US20020191569	12-19-2002	SUNG; Dan-keun et al.	
	014	US20030063579	04-03-2003	LEE; Jung-hyeong	
	015	US20030068983	04-10-2003	KIM; Sung-jin et al.	
	016	US20030109226	06-12-2003	BRUNNER; Christopher et al.	
	017	US20030190897	10-09-2003	LEI; Zhongding et al.	
	018	US20040136349	07-15-2004	WALTON; J. RODNEY. et al.	
	019	US20040170152	09-02-2004	NAGAO; Akifumi et al.	
	020	US20040171384	09-02-2004	HOLMA; Harri et al.	

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 For Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. * Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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	021	US20050175070	08-11-2005	GROB; Matthew S. et al.	
	022	US20050180313	08-18-2005	KIM; Yung-soo et al.	
	023	US20050239465	10-27-2005	LEE; Chang JAE. et al.	
	024	US20050259757	11-24-2005	WU; Shiquan et al.	
	025	US20060013285	01-19-2006	KOBAYASHI; Takahiro; et al.	
	026	US20060039344	02-23-2006	KHAN; Farooq ULLAH;	
	027	US20070004430	01-04-2007	HYUN; Moon-pil; et al.	
	028	US20070009011	01-11-2007	COULSON; Alan JAMES;	
	029	US20070183386	08-09-2007	MUHAREMOVIC; Tarik; et al.	
	030	US20070280336	12-06-2007	ZHANG; Jianzhong; et al.	
	031	US20080095262	04-24-2008	HO; Chin KEONG; et al.	
	032	US20080267157	10-30-2008	LEE; Jung AH; et al.	
	033	US20090180459	07-16-2009	ORLIK; Philip V.; et al.	
	034	US20090262699	10-22-2009	WENGERTER; Christian; et al.	
	035	US20020168946	11-14-2002	AIZAWA, et al.	

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	036	EP0805576A2	11-05-1997	PLESSEY TELECOMM [GB]		<input type="checkbox"/>
	037	EP0807989A1	11-19-1997	MOTOROLA LTD [GB]		<input type="checkbox"/>
	038	EP1093241A1	04-18-2001	NEC CORP [JP]		<input type="checkbox"/>
	039	EP1335504A2	08-13-2003	SAMSUNG ELECTRONICS CO LTD [KR]		<input type="checkbox"/>
	040	EP1513356A2	03-09-2005	SONY ERICSSON MOBILE COMM JP [JP]		<input type="checkbox"/>
	041	JP2004297276 A	10-21-2004	SANYO ELECTRIC CO. et al.		<input checked="" type="checkbox"/>
	042	KR200100877 15A	09-21-2001	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
	043	KR200300359 69A	05-09-2003	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
	044	RU2141168C1	11-10-1999	MOTOROLA LTD [GB]		<input checked="" type="checkbox"/>
	045	RU2141706C1	11-20-1999	VOENNAJA AKADEMIJA SVJAZI		<input checked="" type="checkbox"/>
	046	RU2159007C2	11-10-2000	INTERDIGITAL TEKHOLODZHI CORP [US]		<input checked="" type="checkbox"/>
	047	RU2216101C2	11-10-2003	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
	048	RU2335864C2	10-10-2008	KVEHLKOMM FLEHRION TEKHOLODZHI [US]		<input checked="" type="checkbox"/>
	049	WO02093782A 1	11-21-2002	QUALCOMM INC [US]		<input type="checkbox"/>
	050	WO02100027A 1	12-12-2002	MOTOROLA INC [US]		<input type="checkbox"/>
	051	WO03069832A 1	08-21-2003	SIEMENS AG [DE] et al.		<input type="checkbox"/>

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		Art Unit	2462	
		Examiner Name	JUNTIMA, NITTAYA	
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	052	WO200409573 0A1	11-04-2004	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	053	WO200500225 3A1	01-06-2005	NEC CORP [JP] et al.		<input type="checkbox"/>
	054	WO200502048 8A1	03-03-2005	MATSUSHITA ELECTRIC IND CO LTD [JP] et al.		<input type="checkbox"/>
	055	WO9854919A2	12-03-1998	QUALCOMM INC [US]		<input type="checkbox"/>
	056	WO9960729A1	11-25-1999	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	057	CN1284795	02-21-2001	ROSAA CO LTD [KR]		<input checked="" type="checkbox"/>
	058	JP2004158901	06-03-2004	KDDI CORP.		<input checked="" type="checkbox"/>
	059	JP2004194262	07-08-2004	NTT DOCOMO INC.		<input checked="" type="checkbox"/>
	060	JP9182148	07-11-1997	TRW INC.		<input checked="" type="checkbox"/>
	061	KR200300079 65	01-23-2003	SIEMENS AKTIENGESellschaft.		<input checked="" type="checkbox"/>
	062	RU2225080	02-27-2004	SABO ISHTVAN [HU].		<input checked="" type="checkbox"/>
	063	RU2235429C1	08-27-2004	BORISOV V I [RU]		<input checked="" type="checkbox"/>
	064	RU2237379C2	09-27-2004	SAMSUNG ELECTRONICS CO., LTD.		<input checked="" type="checkbox"/>
	065	RU2242091C2	12-10-2004	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
	066	TW200718128	05-01-2007	NOKIA CO., LTD.		<input checked="" type="checkbox"/>
	067	WO03058871A 1	07-17-2003	QUALCOMM INCORPORATED.		<input type="checkbox"/>
	068	WO04002047	12-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>

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	069	WO04016007	02-19-2004	FLARION TECHNOLOGIES, INC.		<input type="checkbox"/>
	070	WO04095854	11-04-2004	MOTOROLA INC [US], et al.		<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	071	CHIANI, et al. "OUTAGE EVALUATION FOR SLOW FREQUENCY-HOPPING MOBILE RADIO SYSTEMS" IEEE TRANSACTIONS ON COMMUNICATIONS, VOL.47, NO.12, DECEMBER 1999, pgs. 1865-1874, .	<input type="checkbox"/>
	072	CHOW J. S. "A cost-effective maximum likelihood receiver for multicarrier systems," Proc. IEEE Int. Conf. On Comm., 1992, 948-952.	<input type="checkbox"/>
	073	NAOAL AL-DHAHIR, "Optimum Finite-Length Equalization for Multicarrier Transceivers," IEEE Trans. On Comm., 1996, 56-64.	<input type="checkbox"/>
	074	S. NISHIMURA ET AL., "DOWNLINK NULL-FORMATION USING RECEIVING ANTENNA SELECTION IN MIMO/SDMA", TECHNICAL SEARCH REPORT OF ELECTRIC INFORMATION COMMUNICATION ACADEMIC CONFERENCE, FEBRUARY 28, 2002, VOL. 101, NO. 683, PP. 17-22, RCS 2001-286.	<input type="checkbox"/>
	075	SCHNELL et al., "Application Of FDMA to Mobile Radio Transmission", IEEE 1998 International Conference on Universal Personal Communications, vol.2, 5-9 Oct 1998, pp.1267-1272.	<input type="checkbox"/>
	076	SHATTIL, et al., "Array Control Systems for Multicarrier Protocols Using a Frequency-Shifted Feedback Cavity," IEEE, 1999.	<input type="checkbox"/>
	077	WANG, et al., "Improving performance of multi-user OFDM systems using bit-wise interleaver," XP006017222, "ELECTRONICS LETTERS IEE Stevenage, 2001, 37 (19), 1173-1174.	<input type="checkbox"/>
	078	YUN, et al., "Performance Of an LDPC-Coded Frequency-Hopping QFDMA System Based on Resource Allocation in the Uplink, Italy 17-19 May 2004, Piscataway, NJ, USA,	<input type="checkbox"/>

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		XP010766497," VEHICULAR TECHNOLOGY -CONFERENCE 2004. VTO 2004-Spring, 2004 IEEE 59th Milan, 2004, 4, 1925-1928.	

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